

FIG. 1

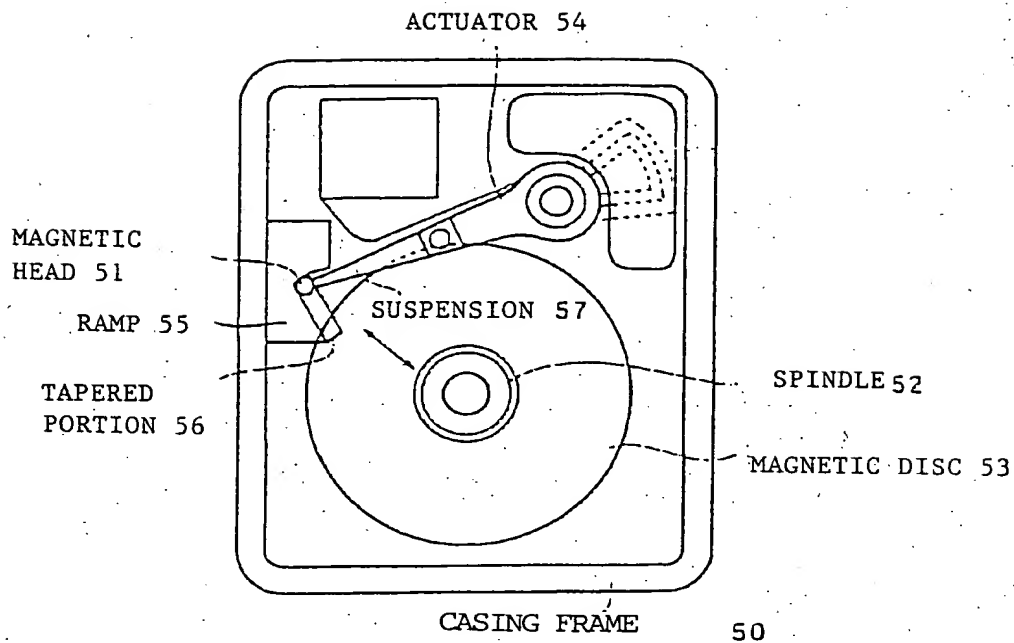


FIG. 1

FIG. 2

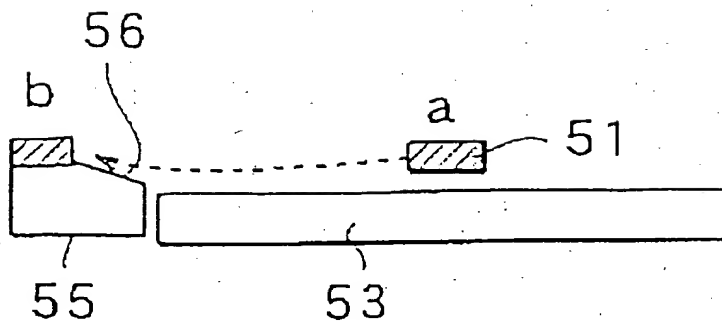


FIG. 2

FIG. 3

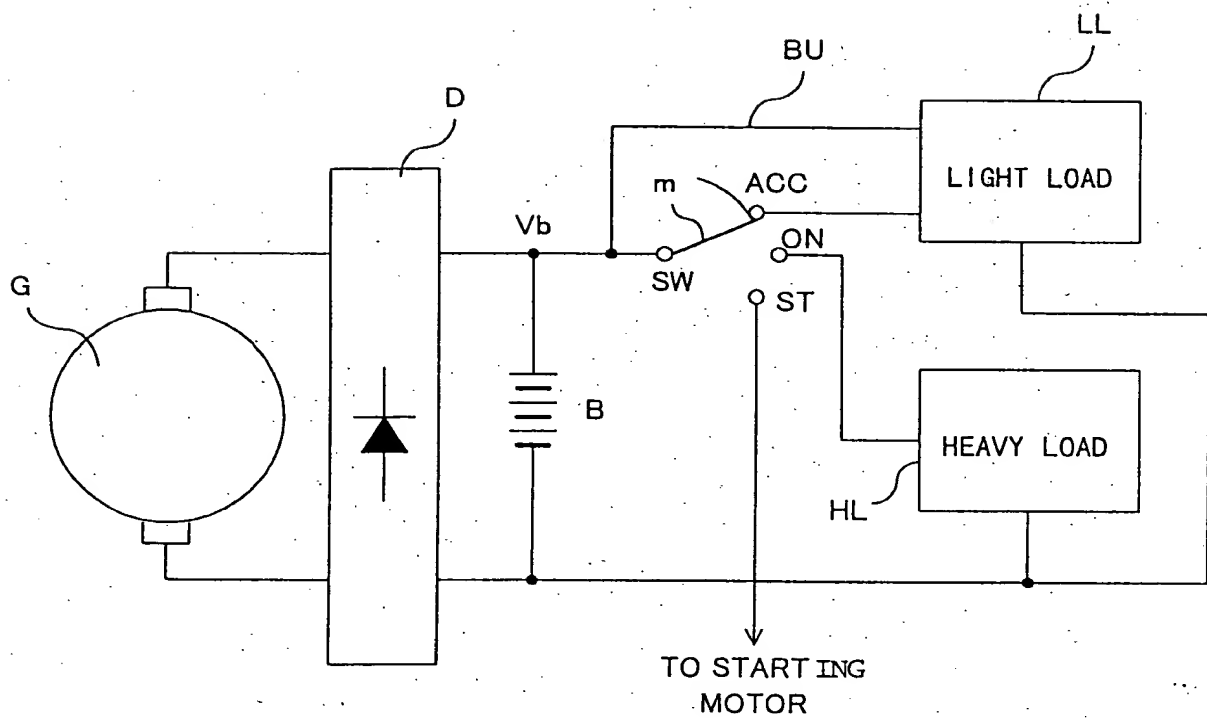


FIG. 4A

BACKUP POWER SUPPLY

FIG. 4B

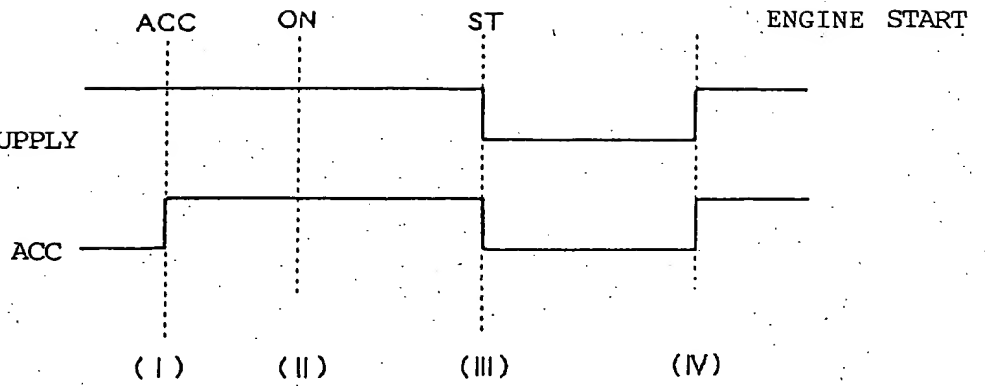
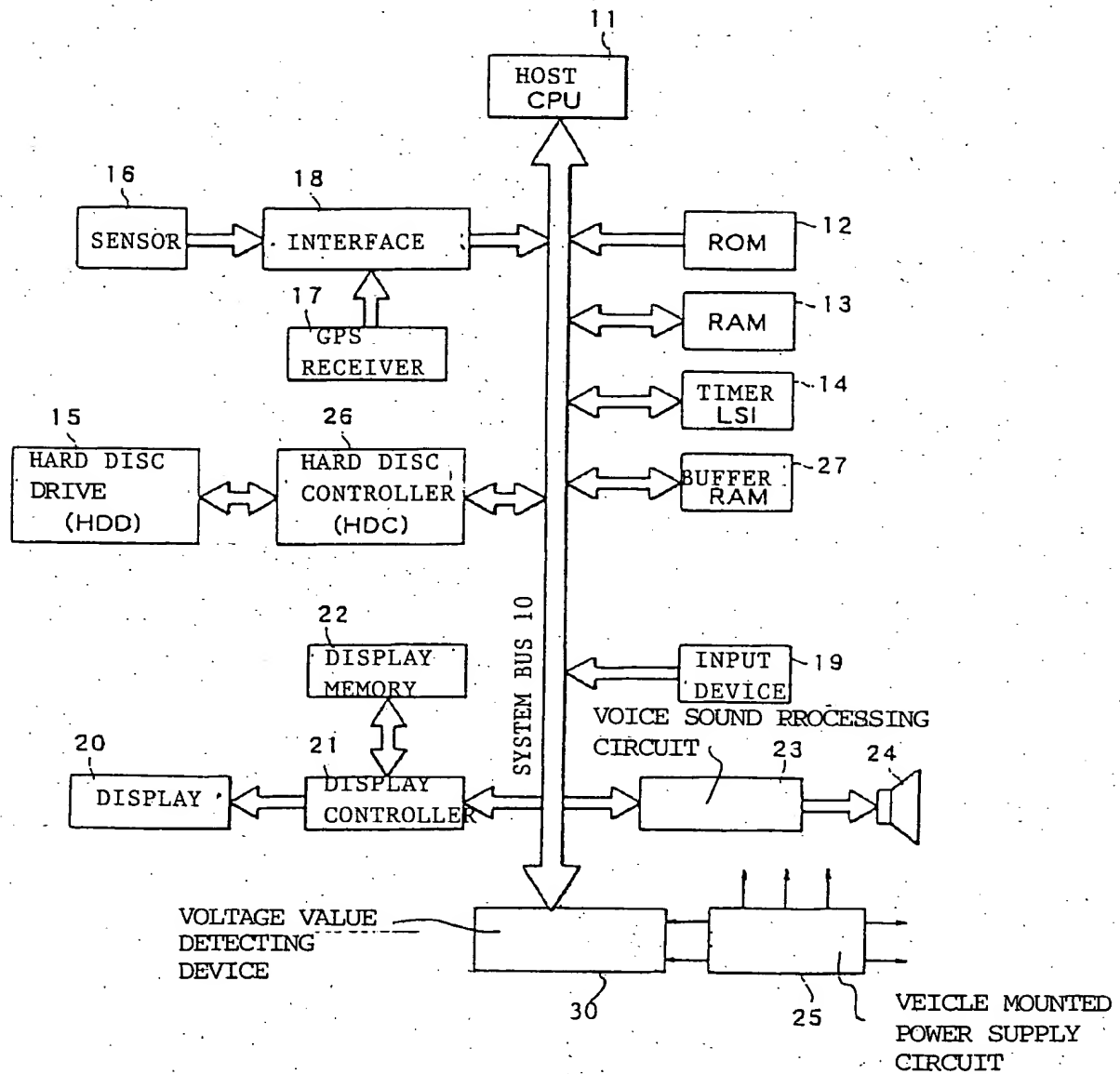
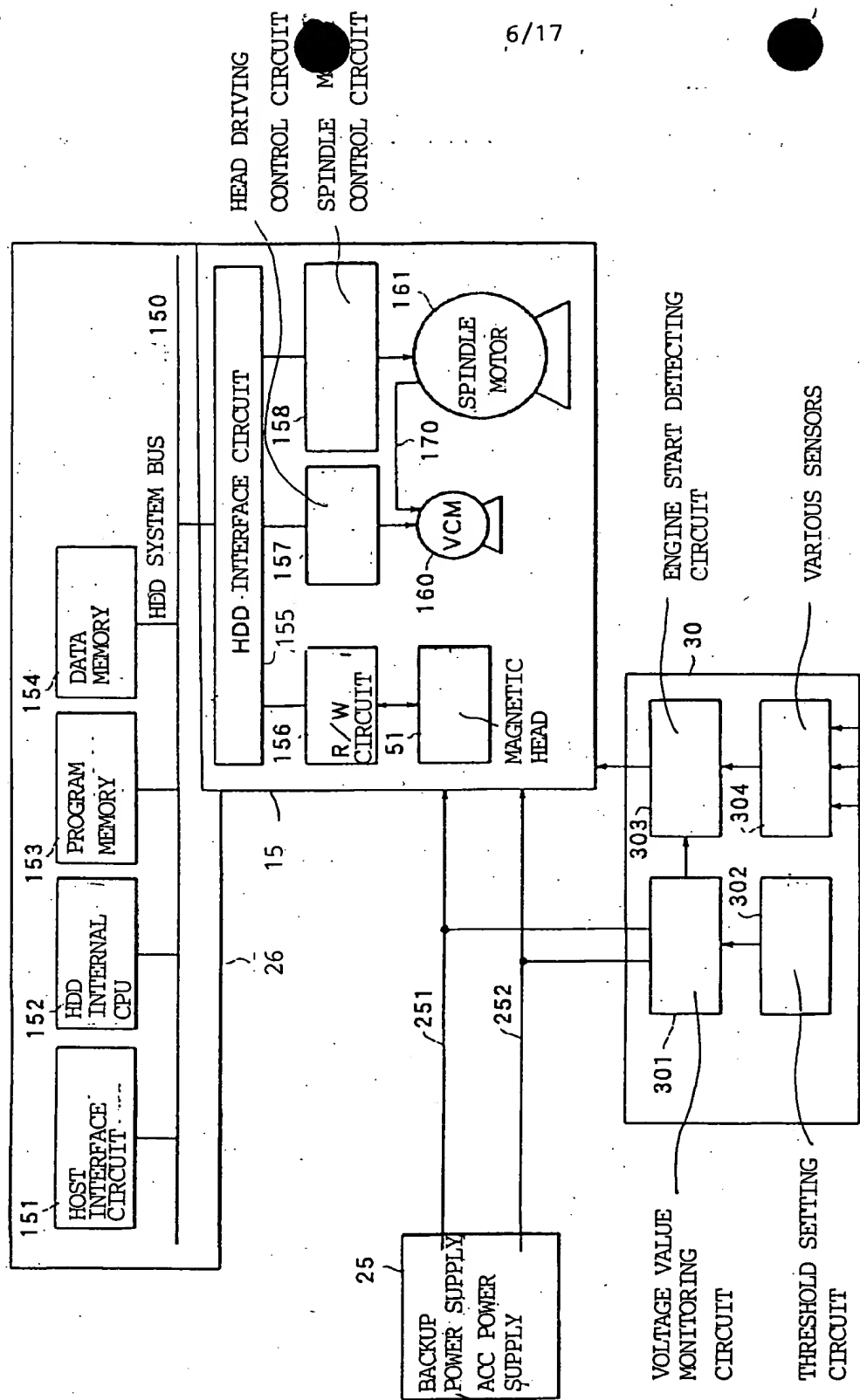


FIG. 5





6
G
H
F

FIG. 7A

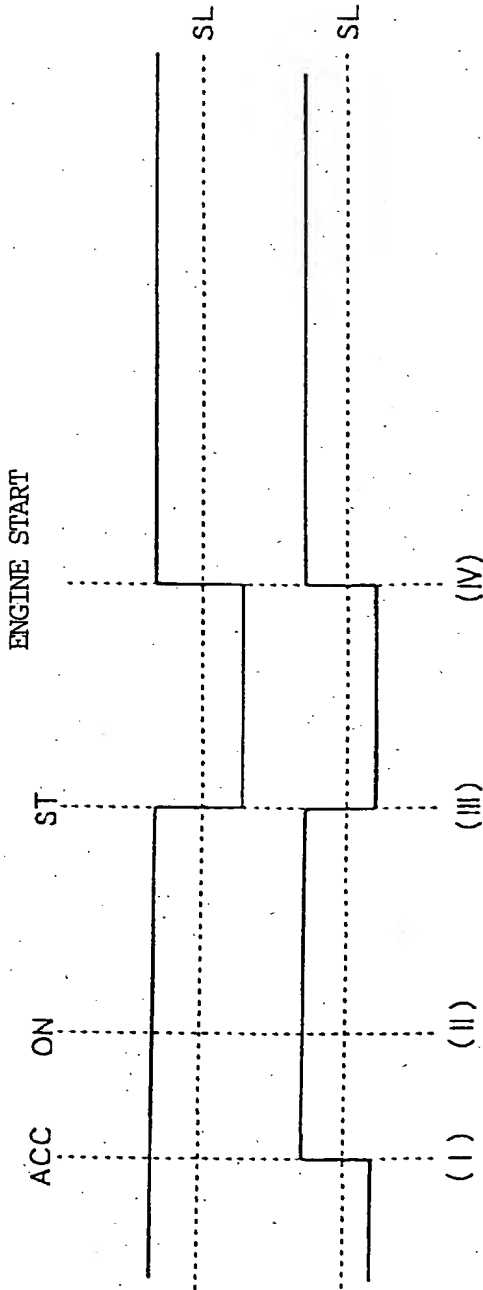
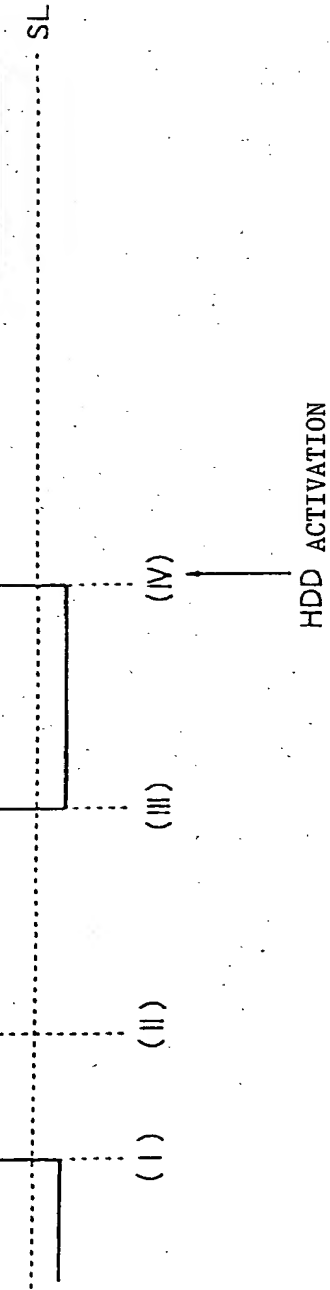


FIG. 7B



THE



KEY SWITCH 254

VOLTAGE VALUE MONITORING CIRCUIT 301

THRESHOLD SETTING CIRCUIT 302

VARIOUS SENSORS 304

ENGINE START DETECTING CIRCUIT 303

40

FIG. 10.

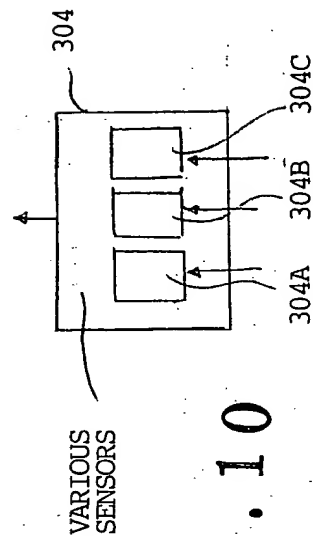


FIG. 9A

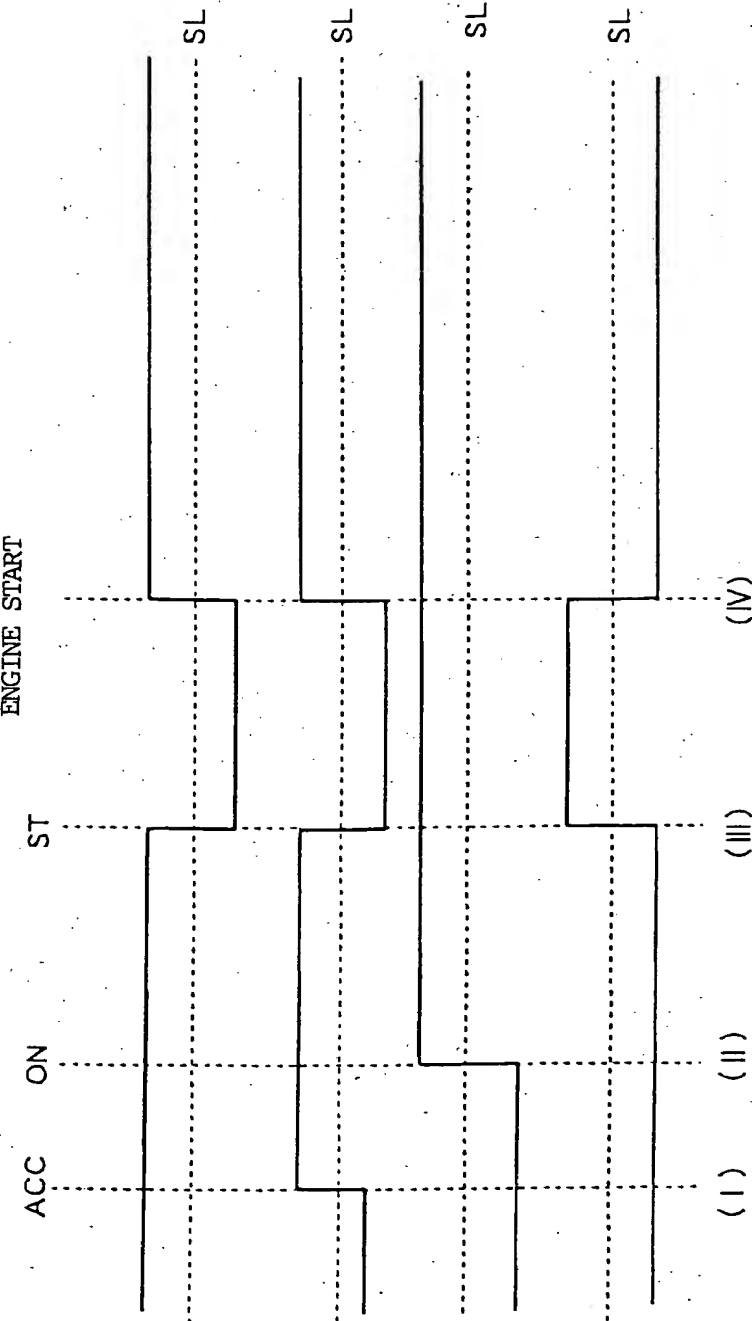
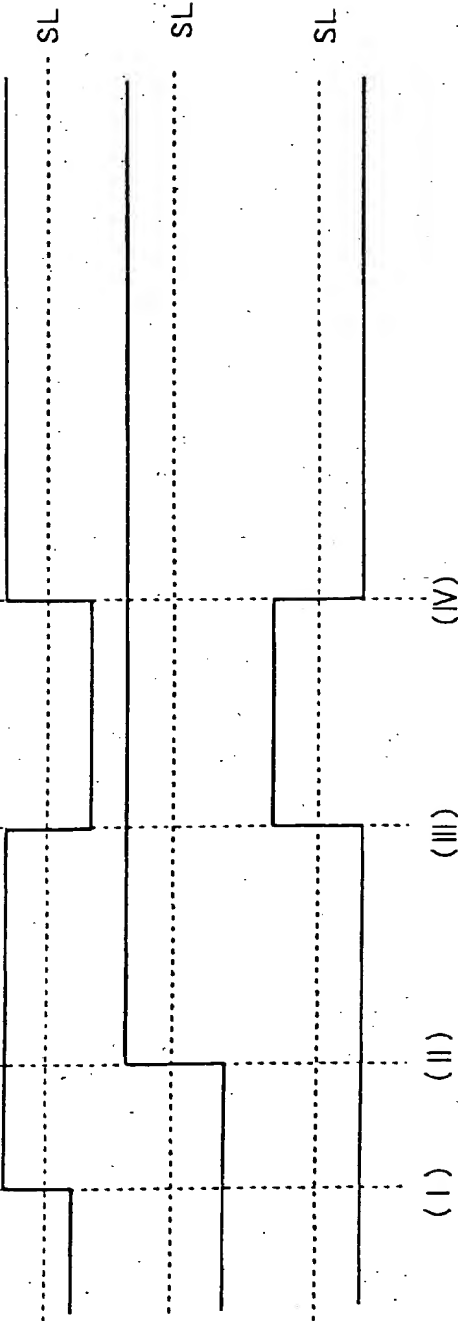


FIG. 9A

BACKUP POWER SUPPLY (251)

FIG. 9B



ACC (252)

FIG. 9C

IG (253)

FIG. 9D

ST (254)

HDD ACTIVATION

FIG. 11

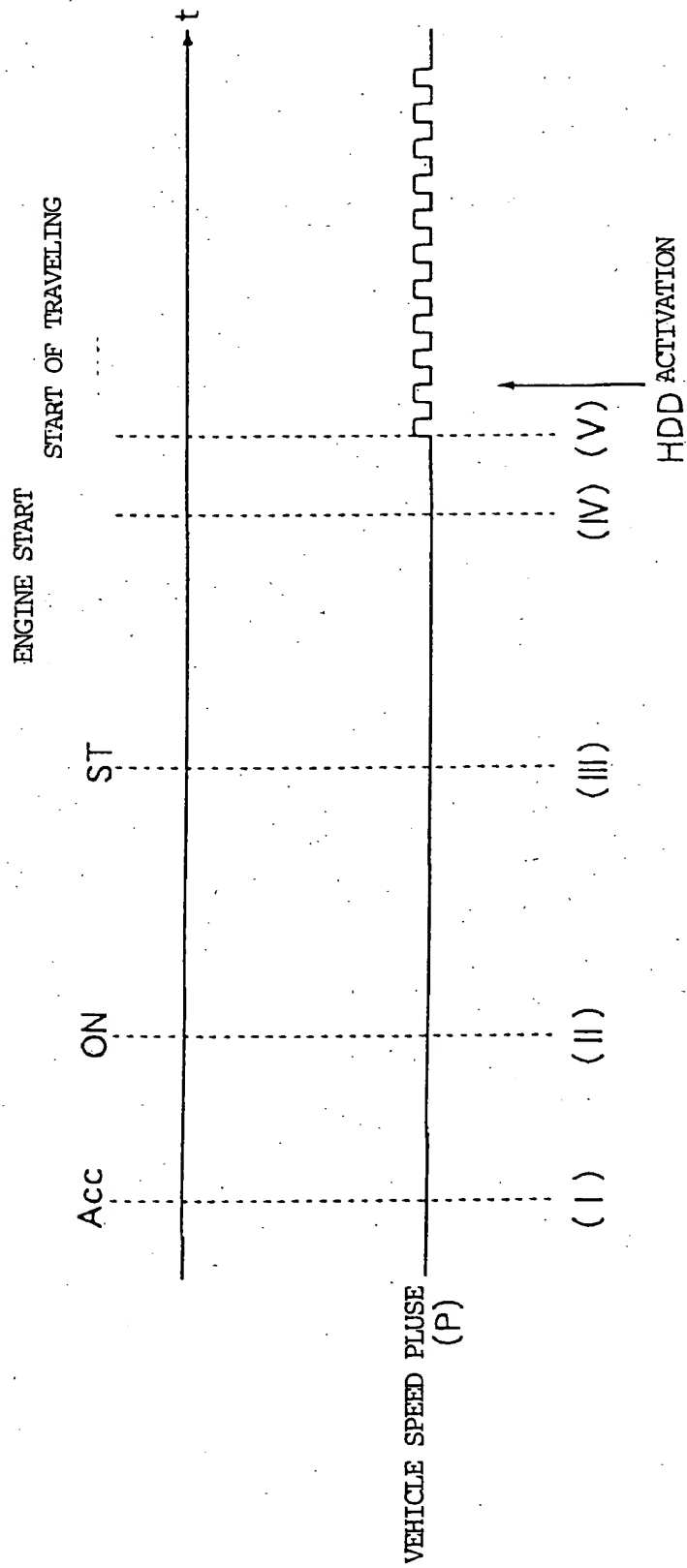


FIG. 12

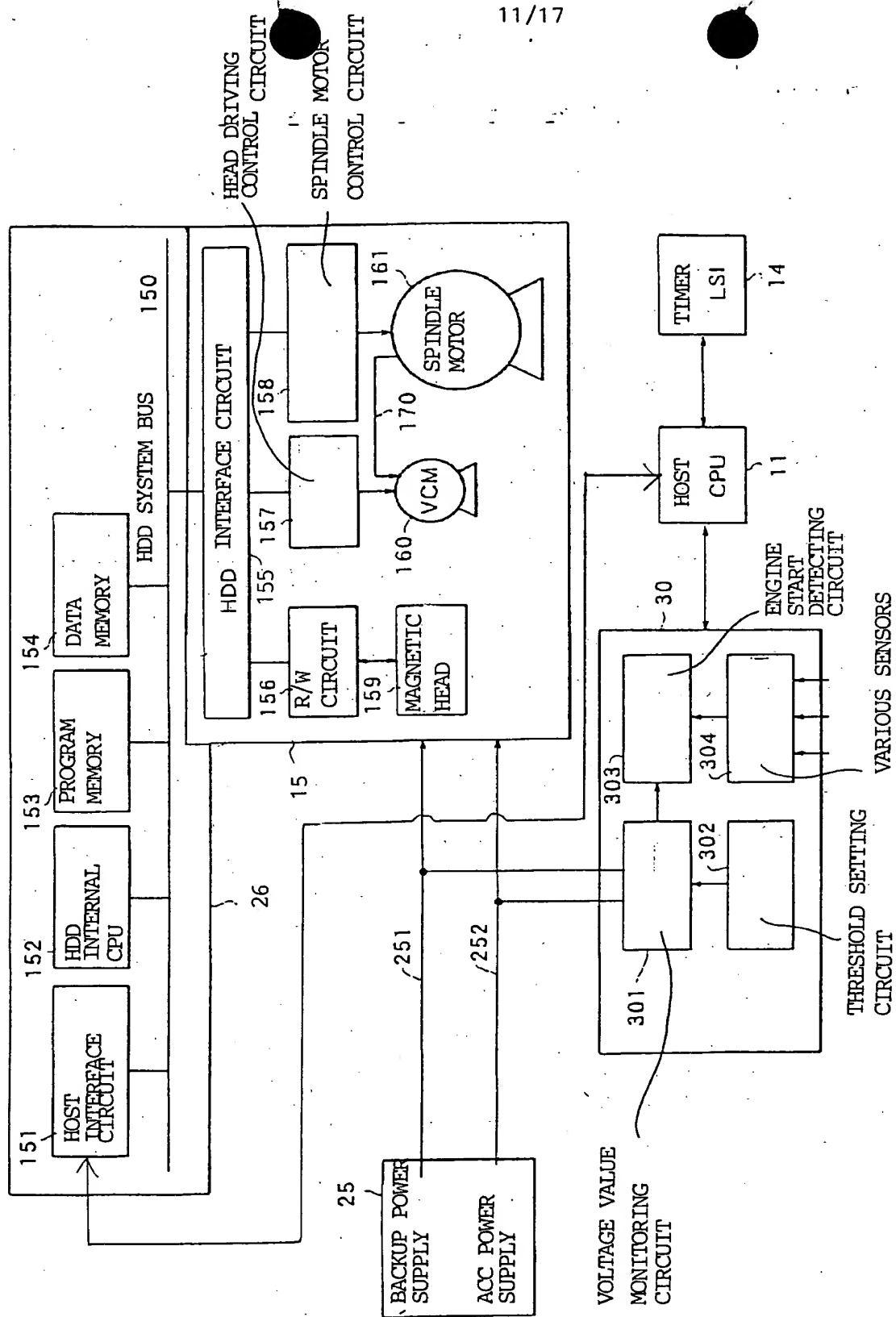


FIG. 13A

FIG. 13A

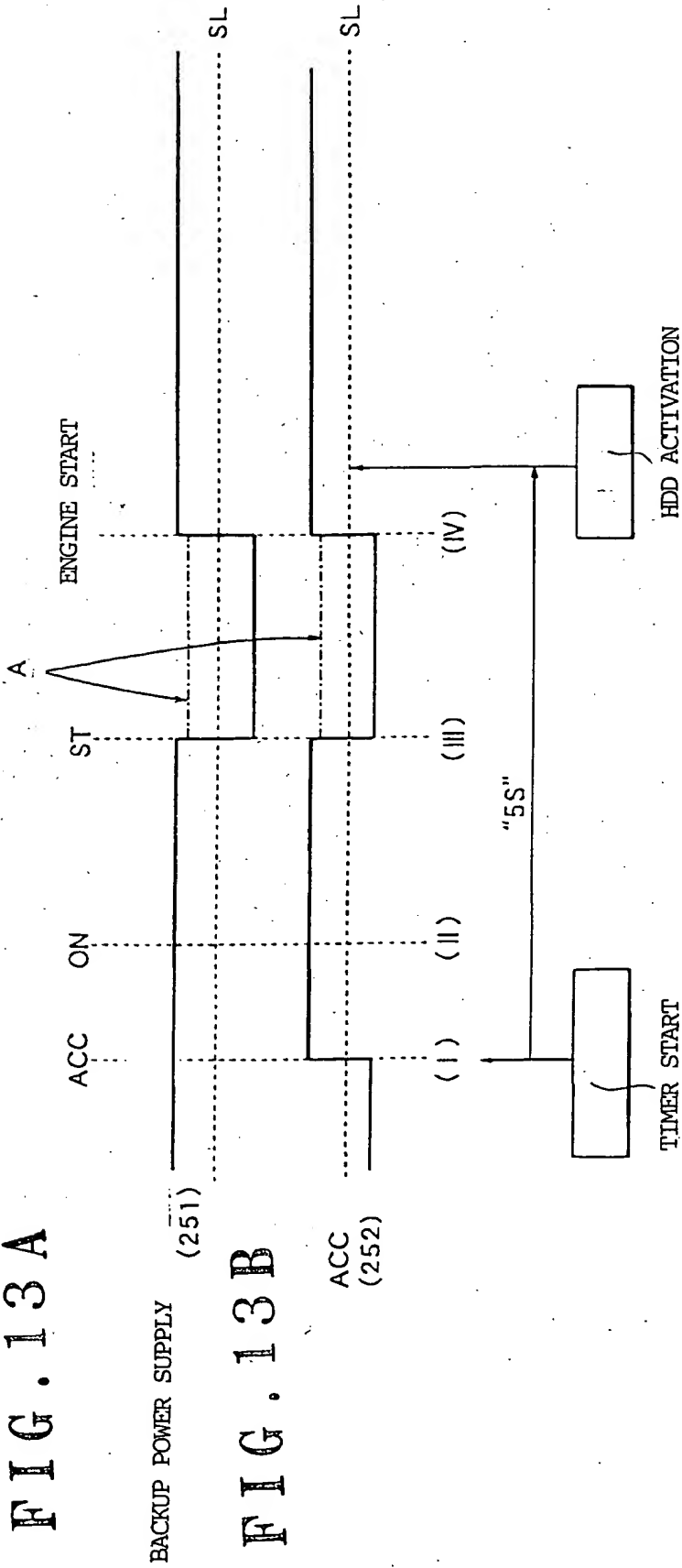


FIG. 13B

FIG. 14A

BACKUP POWER SUPPLY

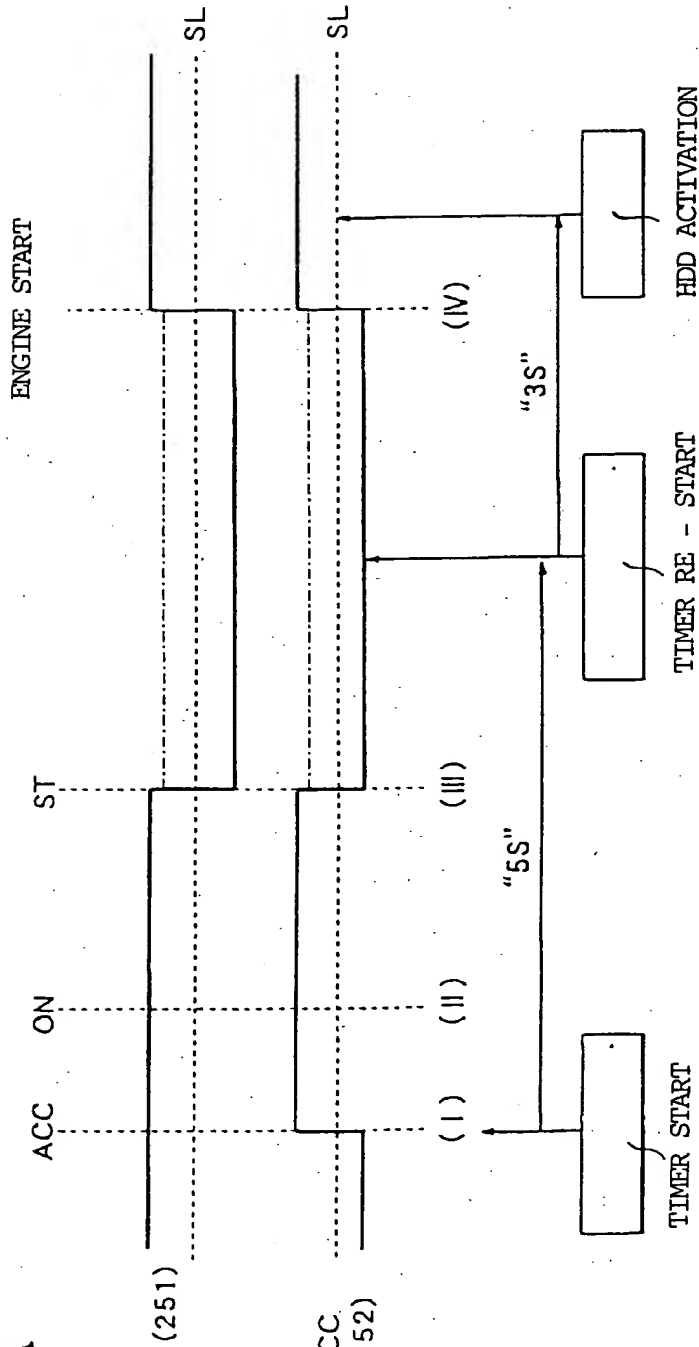


FIG. 14B

ACC
(252)

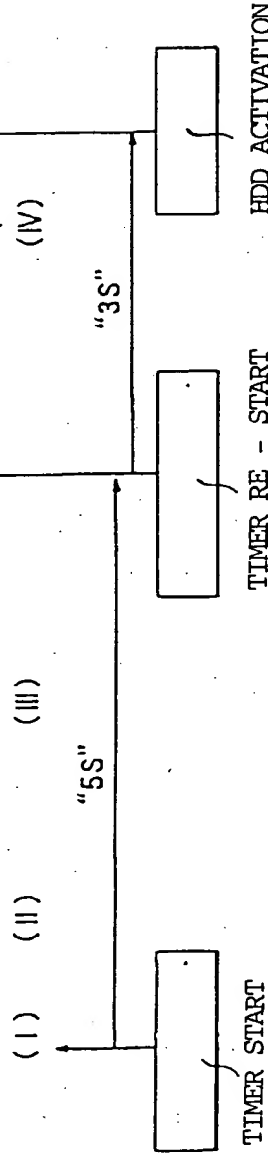


FIG. 15A

BACKUP POWER SUPPLY

(251)

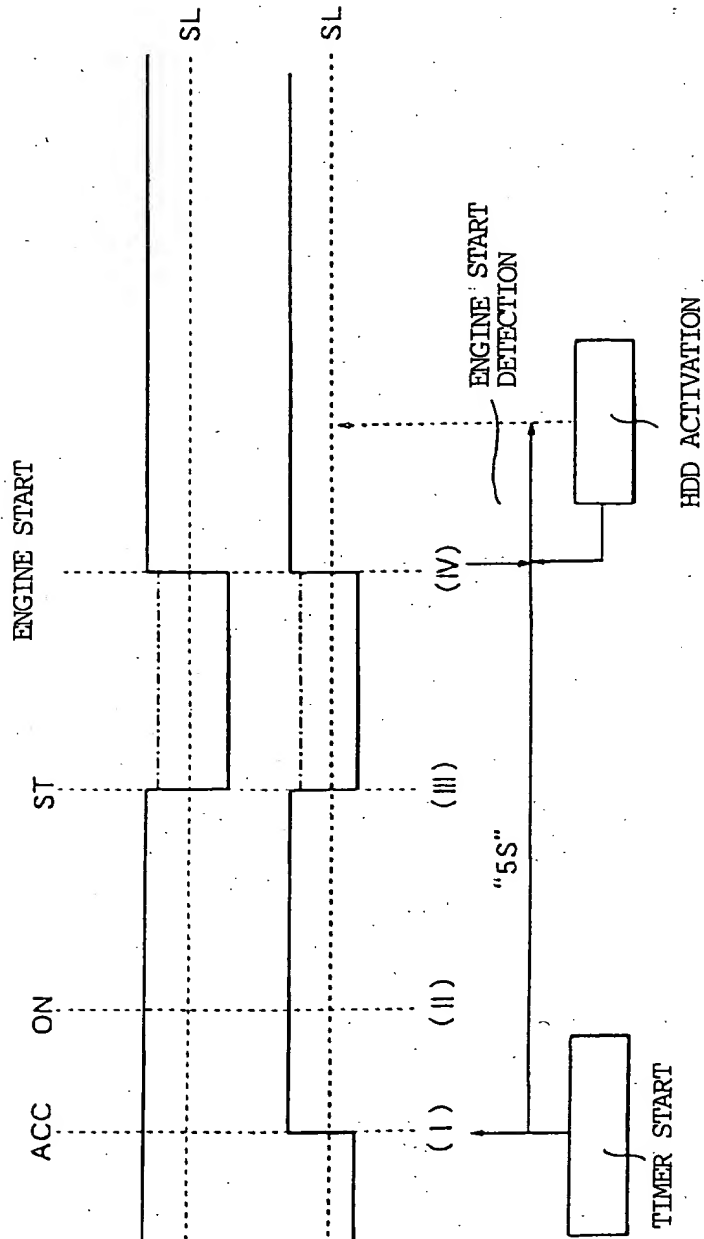


FIG. 15B

ACC
(252)

(I)

(II)

(III)

(IV)

"5S"

ENGINE START
DETECTION

TIMER START

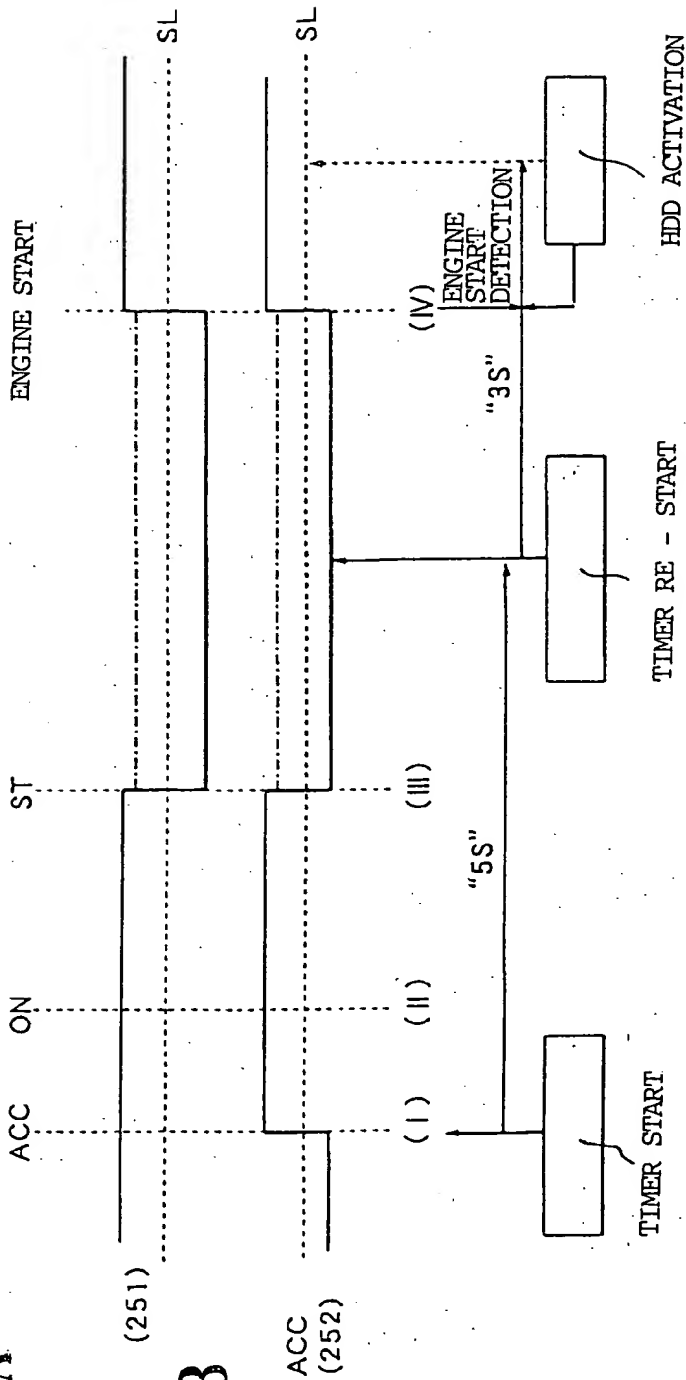
HDD ACTIVATION

FIG. 16A

FIG. 16A

BACKUP POWER SUPPLY

FIG. 16B



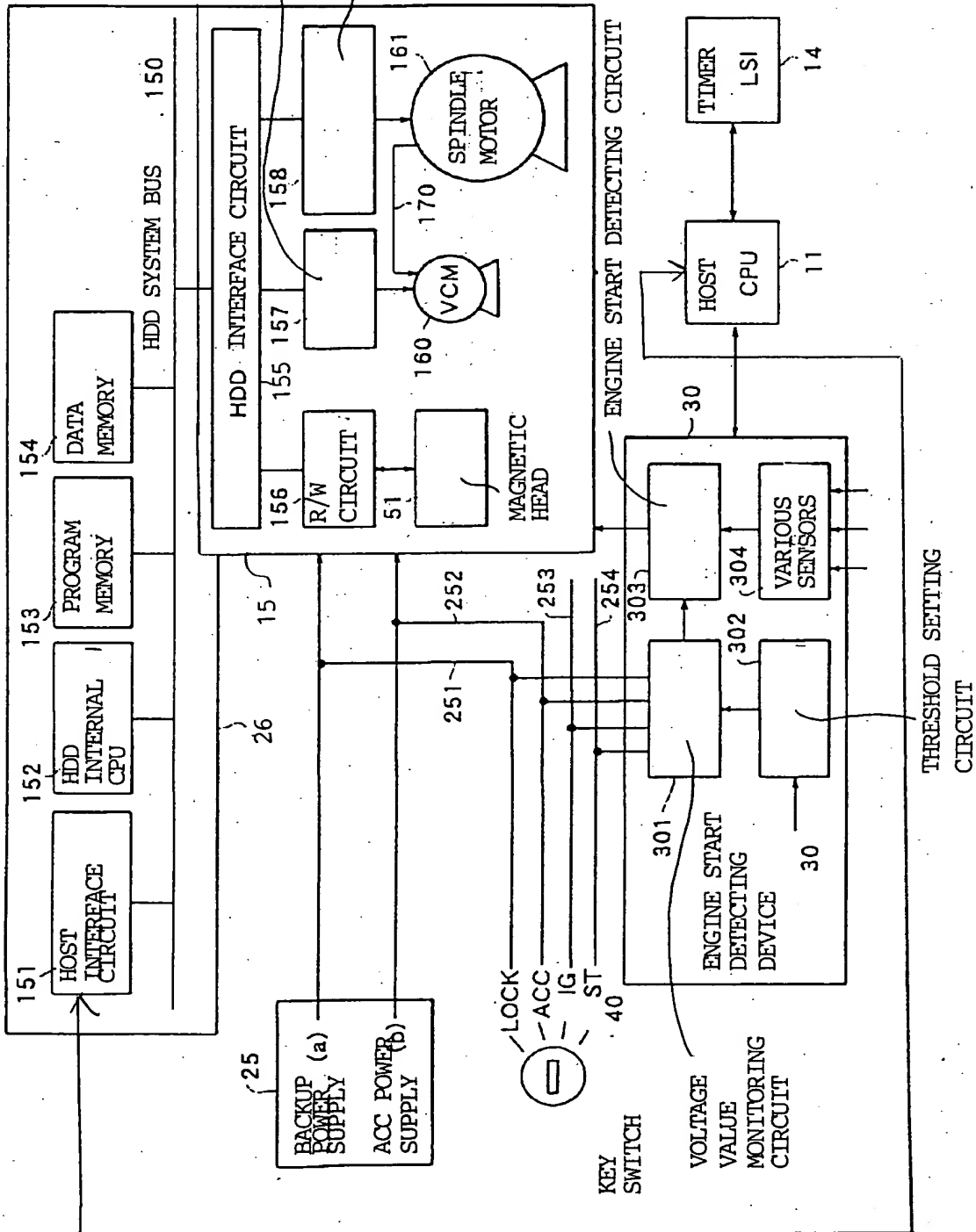


FIG. 18A

BACKUP POWER SUPPLY

(251)

FIG. 18B

ACC
(252)

FIG. 18C

IG
(253)

FIG. 18D

ST
(254)

